

Due: November, 8

HMC Math 142 Fall 2017
Prof. Gu
Problem Set 8

Start this assignment before Sunday night!

Read:

- Baby Do Carmo, Differential Geometry of Curves and Surfaces: Sections 3-4, 3-5 of Chapter 3.
- Review your recent handouts
- Lecture Notes.

Do:

A: Problems from Lectures

- a) Carry out the details for example 4 on page 161.

B: Other Problems (Choose 4 out of the following 5 problems)

- a) Problem 1 on page 168, Section 3-3, Baby Do Carmo.
- b) Problem 5 on page 168, Section 3-3, Baby Do Carmo.
- c) Problem 1 on page 227, Section 4-2, Baby Do Carmo.
- d) Problem 6 on page 228, Section 4-2, Baby Do Carmo.
- e) Carry out the detail of example 1 page 232 (Compute the Christoffel symbols for a surface of revolution)